



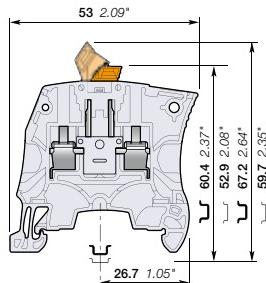
ZS4-S Screw Clamp Terminal Block

Disconnect



4 mm²
10 AWG

A small, rectangular metal component with a red screw at the top.



3D CAD outline drawings available on "Control Product 3D" portal

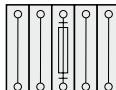
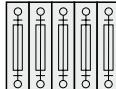
Ordering Details		Type	Order Code	EAN Code	Pack ^(ing)	Weight g (1 pce)
Grey	<input type="checkbox"/>	ZS4-S	1SNK 505 310 R0000	3472595053100	50	8.60
Blue	<input checked="" type="checkbox"/>	ZS4-S-BL	1SNK 505 320 R0000	3472595053209	50	8.60
Orange	<input checked="" type="checkbox"/>	ZS4-S-OR	1SNK 505 330 R0000	3472595053308	50	8.60

General Information

The following information must be strictly adhered to in order to guarantee the terminal block electrical, mechanical and environmental performance.

Protection		IP 20	<i>NEMA 1</i>		
Rail		DIN3-TH35			
Wire stripping length		10.5 mm	<i>0.413 in</i>		
		Screw clamp		Screw rail contact (Maximum value)	
Operating tool	Flat screwdriver				
		3.5 mm	<i>0.138 in</i>		
Torque		0.6 Nm $\pm 0.1 \text{ Nm}$	<i>5.31 lb.in</i> $\pm 0.885 \text{ lb.in}$	$\pm 0.1 \text{ Nm}$	$\pm 0.885 \text{ lb.in}$
Mechanical endurance of disconnect system					

Material Specifications			
Insulating material	Polyamide		
IRC	600 V		
Flammability	UL94 NF F 16 101	V0 I2F2	
	Needle flame test IEC 60695-11-5	Compliant	
Connecting capacity per clamp			
1 Rigid conductor	0.2-4 mm ²		24-10 AWG
1 Flexible conductor without ferrule	0.22-4 mm ²		24-10 AWG
1 Flexible conductor with ferrule	0.22-4 mm ²		24-12 AWG
Ferrule maximum outer diameter	 Ø Max.	4.7 mm	0.185 in
Multi Connecting capacity per clamp			
2 Rigid conductors	0.2-1 mm ²		24-18 AWG
2 Flexible conductors without ferrule	0.22-1 mm ²		24-18 AWG
2 Flexible conductors with twin ferrule	0.22-1.5 mm ²		24-16 AWG
Don't mix solid and flexible conductors in the same clamp			
Don't mix solid or flexible conductors of different sizes in the same clamp			
The "Connecting capacity with ferrule" data is guaranteed with ABB crimping tool PS-3			
Cross section			
Rated cross section	4 mm ²		10 AWG
Maximum Cross section	Manufacturer data	4 mm ²	Manufacturer data
Gauge	A3-B3 / 3 mm / 0.118 in / IEC 60947-7-1		
Electrical characteristics			
Current			
Rated current		IEC 60947-7-1	25 A
	Field and factory wiring Cat.2	UL 1059	25 A
	Factory wiring Cat.1	UL 1059	25 A
		CSA-C-22.2 n° 158	
Rated short-time withstand current 1 s (lcw)			480 A
Short-time withstand current	0.5 s	Manufacturer data	
	5 s	Manufacturer data	
	10 s	Manufacturer data	
	30 s	Manufacturer data	
	1 mn	Manufacturer data	
Rated short circuit withstand		CSA-C-22.2 n° 158	
Max. current (45° temperature increase) / Max. cross section (mm ²)		Manufacturer data	25 A 4 mm ²
Maximum short circuit current (1s)		Manufacturer data	480 A
Short Circuit Current Rating (SCCR) SA UL 1059 supplement			SCCR UL 1059
With the following configurations:			
	Maximum voltage		
	Suitable conductor wire range		
	Fuse rating		
	Fuse designation		
	Fuse manufacturer name		
	Fuse type		
	Short circuit current		

Voltage			
Rated voltage	IEC 60947-1	400 V	
Rated voltage	UL 1059	150 V	
Use Group	UL 1059	C	
Rated voltage	CSA-C-22.2 n° 158	150 V	
Rated voltage Ex e	IEC/EN 60079-11		
Rated impulse withstand voltage		6000 V	
Dielectric test voltage		1890 V	
Pollution degree	IEC 60947-1	3	
Oversupply category	IEC 60947-1	III	
Dissipated power			
Maximum dissipated power at rated current	IEC	0.8 W	
Rated power dissipation at an ambient temperature of 23 °C - IEC 60947-7-3			
Overload and short-circuit protection Separate arrangement			
Exclusive short-circuit protection Separate arrangement	1 fuse and 4 feed-through blocks		
Overload and short-circuit protection Compound arrangement			
Exclusive short-circuit protection Compound arrangement	5 fuse blocks		
Temperature range			
Ambient temperature min/max	Storage	-55 +110 °C	-67 +230 F
	Installing	-5 +40 °C	-23 +104 F
	Service	IEC 60068-2-1	-55 +110 °C
		EN 60079-7	-67 +230 F

Current Derating curve for continuous service temperature

Environmental Characteristics

Additional climatic tests

Dry heat	IEC 60068-2-2	Compliant
Conditions	Temperature	+100 °C
	Duration of test	96 h
Cyclic damp heat	IEC 60068-2-30	Compliant
Conditions	Temperature	+55 °C
	Number of cycles	2
Cold	IEC 60068-2-1	Compliant
Conditions	Temperature	-40 °C
	Duration of test	96 h
Z/ABDM climatic sequence	IEC 60068-2-61	Compliant
Conditions	Dry heat Duration of test / Temperature	16 h +85 °C
	Cyclic damp heat Number of cycles / Temperature	1 +55 °C
	Cold Duration of test / Temperature	2 h -25 °C

Corrosion

Salt mist	IEC 60068-2-11	Compliant
Conditions	Duration of test	96 h
	Concentration	5 %
SO2	ISO 6988	Compliant
Conditions	Duration of test	48 h
	Concentration	0.2 dm³
Sulfur dioxide	IEC 60068-2-42	
Conditions	Duration of test	
Hydrogen sulfur	IEC 60068-2-43	
Conditions	Duration of test	
Flowing mixed gas corrosion test	IEC 60068-2-60	
Conditions	Number of the test method	
	Duration of test	

Vibrations

Vibrations	IEC 60068-2-6	Compliant
Conditions	Frequency range	10-55 Hz
	Number of cycles	10
	Amplitude	
	Acceleration	10 m/s²
Random vibrations and climatic sequence	IEC 60068-2-64	
Conditions	Duration of test	
	Frequency range	
	Acceleration	
Climatic cycles		
Step 1 -> Temperature / Duration of test		
Step 2 -> Temperature / Duration of test		
Temperature variation per minute		

ZS4-S Terminal Block Accessories Compatibility

Description	Type	Order Code	Pack ^(ing) pieces	Weight g (1 pce)	Technical Datasheet PDF
1 End Stops	BAM3	1SNK 900 001 R0000	50	13.80	1SNK 160 026 D0201
2 End Sections	ES4	1SNK 505 910 R0000	20	2.18	1SNK 160 022 D0201
3 Circuit Separators	CS-R1	1SNK 900 103 R0000	20	5.20	1SNK 160 018 D0201
4 Shield Connectors	SHBS	1SNK 900 600 R0000	20	3.50	1SNK 160 025 D0201
5 Protecting Covers	CO	1SNK 900 604 R0000	1	300.00	1SNK 160 020 D0201
	PL5	1SNK 900 618 R0000	20	1.50	1SNK 160 021 D0201
6 Protecting Cover Kits	KCO	1SNK 900 624 R0000	1	47,8	1SNK 160 028 D0201
7 Tools	PS-3	1SNK 900 650 R0000	1	380.00	1SNK 160 024 D0201
8 Terminal Block Markers	MC512	1SNK 140 000 R0000	22	0.06	1SNK 160 003 D0201
	PROCAP5	1SNK 900 609 R0000	20	0.70	1SNK 160 013 D0201
	UMH	1SNK 900 611 R0000	10	0.20	1SNK 160 001 D0201
	SAT5	1SNK 900 614 R0000	5	6.00	1SNK 160 013 D0201